

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.5510003/RWE/FRCAPPLICATION NO.
10/612,410FIRST NAMED INVENTOR
Robert P. BennettFILING DATE
July 3, 2003ART UNIT
1653

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
KKH	AA1	4,889,818	12/26/1989	Gelfand <i>et al.</i>			06/17/1987
	AB1	4,965,188	10/23/1990	Mullis <i>et al.</i>			06/17/1987
	AC1	5,047,342	09/10/1991	Chatterjee			08/10/1989
	AD1	5,079,352	01/07/1992	Gelfand <i>et al.</i>			05/15/1990
	AE1	5,244,797	09/14/1993	Kotewicz <i>et al.</i>			03/18/1991
	AF1	5,252,466	10/12/1993	Cronan, Jr.			05/18/1990
	AG1	5,270,179	12/14/1993	Chatterjee			01/28/1992
	AH1	5,374,553	12/20/1994	Gelfand <i>et al.</i>			08/13/1990
	AI1	5,436,149	07/25/1995	Barnes			02/19/1993
	AJ1	5,512,462	04/30/1996	Cheng			02/25/1994
	AK1	5,614,365	03/25/1997	Tabor <i>et al.</i>			11/10/1994

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	WO 92/06188 A2	04/16/1992	WIPO			Yes No
	AM1	WO 92/06200 A1	04/16/1992	WIPO			Yes No
	AN1	WO 96/10640 A1	04/11/1996	WIPO			Yes No
	AO1	WO 96/19497 A1	06/27/1996	WIPO			Yes No
	AP1	WO 97/09451 A1	03/13/1997	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	Airenne, K.J., <i>et al.</i> , "Avidin Is a Promising Tag for Fusion Proteins Produced in Baculovirus-Infected Insect Cells," <i>Protein Expr. Purif.</i> 17:139-145, Academic Press (1999)
	AS	1	Andersen, A.H., <i>et al.</i> , "Studies of Topoisomerase II-mediated Cleavage and Religation Reactions by Use of a Suicidal Double-stranded DNA Substrate," <i>J. Biol. Chem.</i> 266:9203-9210, The American Society for Biochemistry and Molecular Biology, Inc. (1991)
↓	AT	1	Andersson, S., <i>et al.</i> , "Cloning, Structure, and Expression of the Mitochondrial Cytochrome P-450 Sterol 26-Hydroxylase, a Bile Acid Biosynthetic Enzyme," <i>J. Biol. Chem.</i> 264:8222-8229, The American Society for Biochemistry and Molecular Biology, Inc. (1989)

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KKH	AA2	5,766,891	06/16/1998	Shuman			12/19/1994
	AB2	5,789,156	08/04/1998	Bujard <i>et al.</i>			02/03/1995
	AC2	5,811,252	09/22/1998	Verheijen			07/06/1995
	AD2	5,851,808	12/22/1998	Elledge <i>et al.</i>			02/28/1997
	AE2	5,888,732	03/30/1999	Hartley <i>et al.</i>			06/07/1996
	AF2	6,143,557	11/07/2000	Hartley <i>et al.</i>			01/20/1999
	AG2	6,171,861 B1	01/09/2001	Hartley <i>et al.</i>			01/12/1998
	AH2	6,270,969 B1	08/07/2001	Hartley <i>et al.</i>			01/20/1999
	AI2	6,277,608 B1	08/21/2001	Hartley <i>et al.</i>			04/22/1999
	AJ2	6,277,620 B1	08/21/2001	Gwynn <i>et al.</i>			04/26/1999
	AK2	2002/0007051 A1	01/17/2002	Cheo <i>et al.</i>			12/11/2000

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	AL2	WO 98/47912 A1	10/29/1998	WIPO			Yes No
	AM2	WO 98/56943 A1	12/17/1998	WIPO			Yes No
	AN2	WO 00/52027 A1	09/08/2000	WIPO			Yes No
	AO2	WO 04/005482 A2	01/15/2004	WIPO			Yes No
	AP						Yes No

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KKH	AR	2	Astatke, M., <i>et al.</i> , "How E. coli DNA Polymerase I (Klenow fragment) Distinguishes between Deoxy- and Dideoxynucleotides," <i>J. Mol. Biol.</i> 278:147-165, Academic Press, Ltd. (1998)
	AS	2	Barnes, W.M., "The fidelity of <i>Taq</i> polymerase catalyzing PCR is improved by an N-terminal deletion," <i>Gene</i> 112:29-35, Elsevier Science Publishers B.V. (1992)
	AT	2	Berger, J.M., <i>et al.</i> , "Structure of DNA topoisomerases," <i>Biochim. Biophys. Acta</i> 1400:3-18, Elsevier Science B.V. (1998)

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KKH	AA3	6,410,317 B1	06/25/2002	Farmer			07/14/2000
KKH	AB3	2003/0186233 A1	10/02/2003	Chesnut <i>et al.</i>			12/07/2001
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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KKH	AR	3	Boshart, M., <i>et al.</i> , "A Very Strong Enhancer Is Located Upstream of an Immediate Early Gene of Human Cytomegalovirus," <i>Cell</i> 41:521-530, The MIT Press (1985)				
↓	AS	3	Brutlag, D.L., <i>et al.</i> , "Improved sensitivity of biological sequence database searches," <i>Comput. Appl. Biosci.</i> 6:237-245, Oxford University Press (1990)				
↓	AT	3	Caron, P.R., and Wang, J.C., "Appendix II: Alignment of Primary Sequences of DNA Topoisomerases," <i>Adv. Pharmacol.</i> 29B:271-297, Academic Press, Inc. (1994)				

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	AO						Yes
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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KKH	AR	4	Chapman-Smith, A., and Cronan, Jr., J.E., "Molecular Biology of Biotin Attachment to Proteins," <i>J. Nutr.</i> 129:477S-484S, American Society for Nutritional Sciences (1999)
↓	AS	4	Cheng, C., et al., "Conservation of Structure and Mechanism between Eukaryotic Topoisomerase I and Site-Specific Recombinases," <i>Cell</i> 92:841-850, Cell Press (1998)
↓	AT	4	Cheng, C., and Shuman, S., "Recombinogenic Flap Ligation Pathway for Intrinsic Repair of Topoisomerase 1B-Induced Double-Strand Breaks," <i>Mol. Cell. Biol.</i> 20:8059-8068, American Society for Microbiology (2000)

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KKH	AR	5	Cronan, Jr., J.E., "Biotination of Proteins <i>in Vivo</i> ," <i>J. Biol. Chem.</i> 265:10327-10333, The American Society for Biochemistry and Molecular Biology, Inc. (1990)				
↓	AS	5	Digate, R.J., and Marians, K.J., "Molecular Cloning and DNA Sequence Analysis of <i>Escherichia coli topB</i> , the Gene Encoding Topoisomerase III," <i>J. Biol. Chem.</i> 264:17924-17930, The American Society for Biochemistry and Molecular Biology, Inc. (1989)				
↓	AT	5	Dubendorff, J.W., and Studier, F.W., "Controlling Basal Expression in an Inducible T7 Expression System by Blocking the Target T7 Promoter with <i>lac</i> Repressor," <i>J. Mol. Biol.</i> 219:45-59, Academic Press, Ltd. (1991)				

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KKH	AR	6	Einhauer, A., and Jungbauer, A., "The FLAG™ peptide, a versatile fusion tag for the purification of recombinant proteins," <i>J. Biochem. Biophys. Methods</i> 49:455-465, Elsevier Science B.V. (October 2001)				
↓	AS	6	Flaman, J-M., et al., "A rapid PCR fidelity assay," <i>Nucl. Acids Res.</i> 22:3259-3260, Oxford University Press (1994)				
↓	AT	6	Gatz, C., et al., "Stringent repression and homogenous de-repression by tetracycline of a modified CaMV 35S promoter in intact transgenic tobacco plants," <i>Plant J.</i> 2:397-404, Blackwell Scientific Publishers (1992)				

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KKH	AR	<u>1</u>	Gerard, G.F., <i>et al.</i> , "cDNA Synthesis by Moloney Murine Leukemia Virus RNase H-Minus Reverse Transcriptase Possessing Full DNA Polymerase Activity," <i>Focus</i> 14:91-93, Life Technologies, Inc. (1992)
↓	AS	<u>1</u>	Green, N.M., "Avidin and Streptavidin," <i>Methods Enzymol.</i> 184:51-67, Academic Press, Inc. (1990)
↓	AT	<u>1</u>	Grunden, A.M., <i>et al.</i> , "An Analysis of the Binding of Repressor Protein ModE to <i>modABCD</i> (Molybdate Transport) Operator/Promoter DNA of <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 274:24308-24315, The American Society for Biochemistry and Molecular Biology, Inc. (1999)

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KKH	AR	8	Gupta, M., <i>et al.</i> , "Eukaryotic DNA topoisomerases I," <i>Biochim. Biophys. Acta</i> 1262:1-14, Elsevier Science B.V. (1995)
↓	AS	8	Hanai, R., <i>et al.</i> , "Human TOP3: A single-copy gene encoding DNA topoisomerase III," <i>Proc. Natl. Acad. Sci. USA</i> 93:3653-3657, National Academy Press (1996)
↓	AT	8	Hartley, J.L., <i>et al.</i> , "DNA Cloning Using In Vitro Site-Specific Recombination," <i>Genome Res.</i> 10:1788-1795, Cold Spring Harbor Laboratory Press (2000)

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KKH	AR	9	Jank, M.M., et al., "Expression and Biotinylation of a Mutant of the Transcarboxylase Carrier Protein from <i>Propionis shermanii</i> ," <i>Protein Expr. Purif.</i> 17:123-127, Academic Press (1999)
↓	AS	9	Kim, R.A., and Wang, J.C., "Identification of the Yeast <i>TOP3</i> Gene Product as a Single Strand-specific DNA Topoisomerase," <i>J. Biol. Chem.</i> 267:17178-17185, The American Society for Biochemistry and Molecular Biology, Inc. (1992)
↓	AT	9	Kotewicz, M.L., et al., "Isolation of cloned Moloney murine leukemia virus reverse transcriptase lacking ribonuclease H activity," <i>Nucl. Acids Res.</i> 16:265-277, IRL Press, Ltd. (1988)

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KKH	AR	10	Landy, A., "Mechanistic and structural complexity in the site-specific recombination pathways of Int and FLP," <i>Curr. Opin. Genet. Dev.</i> 3:699-707, Current Biology, Ltd. (1993)				
↓	AS	10	Lawyer, F.C., et al., "High-level Expression, Purification, and Enzymatic Characterization of Full-length <i>Thermus aquaticus</i> DNA Polymerase and a Truncated Form Deficient in 5' to 3' Exonuclease Activity," <i>PCR Meth. Appl.</i> 2:275-287, Cold Spring Harbor Laboratory Press (1993)				
↓	AT	10	Li, Z., et al., "The <i>traE</i> Gene of Plasmid RP4 Encodes a Homologue of <i>Escherichia coli</i> DNA Topoisomerase III," <i>J. Biol. Chem.</i> 272:19582-19587, The American Society for Biochemistry and Molecular Biology, Inc. (1997)				

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	AO						Yes
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	AP						Yes
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KKH	AR	11	Manstein, D.J., et al., "Cloning vectors for the production of proteins in <i>Dictyostelium discoideum</i> ," <i>Gene</i> 162:129-134, Elsevier Science B.V. (1995)
↓	AS	11	Mills, A.A., "Changing colors in mice: an inducible system that delivers," <i>Genes Dev.</i> 15:1461-1467, Cold Spring Harbor Laboratory Press (June 2001)
↓	AT	11	Murray, P.J., et al., "Epitope Tagging of the Human Endoplasmic Reticulum HSP70 Protein, BiP, to Facilitate Analysis of BiP - Substrate Interactions," <i>Anal. Biochem.</i> 229:170-179, Academic Press, Inc. (1995)

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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KKH	AR	12	Murtif, V.L., et al., "Cloning and expression of the 1.3S biotin-containing subunit of transcarboxylase," <i>Proc. Natl. Acad. Sci. USA</i> 82:5617-5621, National Academy Press (1985)
↓	AS	12	Nelson, J.A., et al., "Negative and Positive Regulation by a Short Segment in the 5'-Flanking Region of the Human Cytomegalovirus Major Immediate-Early Gene," <i>Mol. Cell Biol.</i> 7:4125-4129, American Society for Microbiology (1987)
↓	AT	12	Parrott, M.B., and Barry, M.A., "Metabolic Biotinylation of Recombinant Proteins in Mammalian Cells and in Mice," <i>Mol. Ther.</i> 1:96-104, The American Society of Gene Therapy (2000)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KKH	AR	13	Parrott, M.B., and Barry, M.A., "Metabolic Biotinylation of Secreted and Cell Surface Proteins from Mammalian Cells," <i>Biochem. Biophys. Res. Comm.</i> 281:993-1000, Academic Press (March 2001)
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EXAMINER

Kevin K. Hill

DATE CONSIDERED

Aug. 9, 2006

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.5510003/RWE/FRC	APPLICATION NO. 10/612,410
	FIRST NAMED INVENTOR Robert P. Bennett	
	FILING DATE July 3, 2003	ART UNIT 1653

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AO						Yes
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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KKH	AR	<u>14</u>	Rosano, C., <i>et al.</i> , "The X-ray three-dimensional structure of avidin," <i>Biomol. Eng.</i> 16:5-12, Elsevier Science B.V. (1999)
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↓	AT	<u>14</u>	Saiki, R.K., <i>et al.</i> , "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <i>Science</i> 239:487-491, American Association for the Advancement of Science (1988)

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KKH	AR	15	Sambrook, J., et al., "Introduction of Recombinant Vectors into Mammalian Cells," in <i>Molecular Cloning, a Laboratory Manual</i> , 2nd. ed., Sambrook, J., et al., eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, pp. 16.30-16.55 (1989)
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↓	AT	15	Shuman, S., and Moss, B., "Identification of a vaccinia virus gene encoding a type I DNA topoisomerase," <i>Proc. Natl. Acad. Sci. USA</i> 84:7478-7482, National Academy Press (1987)

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KKH	AR	<u>16</u>	Shuman, S., "Recombination mediated by vaccinia virus DNA topoisomerase I in <i>Escherichia coli</i> is sequence specific," <i>Proc. Natl. Acad. Sci. USA</i> 88:10104-10108, National Academy Press (1991)
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KKH	AR	17	Schwarz, E., <i>et al.</i> , "The Sodium Ion Translocating Oxalacetate Decarboxylase of <i>Klebsiella pneumoniae</i> ," <i>J. Biol. Chem.</i> 263:9640-9645, The American Society for Biochemistry and Molecular Biology, Inc. (1988)
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↓	AT	<u>18</u>	Wang, J.C., <i>et al.</i> , "DNA Topoisomerases: Why So Many?" <i>J. Biol. Chem.</i> 266:6659-6662, The American Society for Biochemistry and Molecular Biology, Inc. (1991)

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KKH	AR	19	Watson, J.D., et al., "Transferring Genes into Mammalian Cells," in <i>Recombinant DNA</i> , 2nd ed., Watson, J.D., et al., eds., W.H. Freeman and Company, New York, NY, pp. 213-234 (1992)
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KKH	AR	<u>20</u>	Zhang, H.L., et al., "Escherichia coli DNA Topoisomerase III Is a Site-specific DNA Binding Protein That Binds Asymmetrically to Its Cleavage Site," <i>J. Biol. Chem.</i> 270:23700-23705, The American Society for Biochemistry and Molecular Biology, Inc. (1995)
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↓	AT	<u>20</u>	Zusman, R., and Zusman, I., "Glass fibers covered with sol-glass as a new support for affinity chromatography columns: a review," <i>J. Biochem. Biophys. Methods</i> 49:175-187, Elsevier Science B.V. (October 2001)

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KKH	AR	<u>21</u>	Copy of co-pending U.S. Application No. 09/438,358, inventors Gerard <i>et al.</i> , filed on November 12, 1999
↓	AS	<u>21</u>	Copy of co-pending U.S. Application No. 09/517,466, inventors Hartley <i>et al.</i> , filed on March 2, 2000
↓	AT	<u>21</u>	Copy of co-pending U.S. Application No. 09/695,065, inventors Brasch <i>et al.</i> filed on October 25, 2000

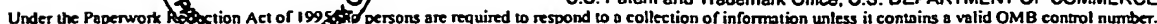
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**FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/612,410
Filing Date	July 3, 2003
First Named Inventor	Robert P. Bennett
Art Unit	1633
Examiner Name	Burkhart, Michael D.
Attorney Docket Number	0942.5510003/RWE/FRC

Sheet	1	of	1
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NON PATENT LITERATURE DOCUMENTS

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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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